

UNITED STATES DEPARTMENT OF COMMERCE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR			ATTORNEY DOCKET NO.
08/813,200	03/07/97	HIRANO		M	2342-0107P
Г	MM21/0312		\neg		EXAMINER
BIRCH STEWART KOLASCH AND BIRCH P O BOX 747			•	DIETRICH, M	
FALLS CHURCH: VA 22040-0747				ART UNIT	PAPER NUMBER
				2814	

DATE MAILED: 03/12/99

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary

Application No. 08/813,200

Applicant(s)

Hirano

Examiner

Mike Dietrich

Group Art Unit 2814



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X Responsive to communication(s) filed on <u>Feb 22, 1999</u>			
☐ This action is FINAL .			
☐ Since this application is in condition for allowance exce in accordance with the practice under Ex parte Quayle,	pt for formal matters, prosecution as to the merits is closed 1935 C.D. 11; 453 O.G. 213.		
A shortened statutory period for response to this action is is longer, from the mailing date of this communication. Fa application to become abandoned. (35 U.S.C. § 133). Extra 37 CFR 1.136(a).	set to expire3month(s), or thirty days, whichever illure to respond within the period for response will cause the tensions of time may be obtained under the provisions of		
Disposition of Claims			
X Claim(s) <u>1-26</u>	is/are pending in the application.		
	is/are withdrawn from consideration.		
Claim(s)			
X Claim(s) 1-9, 12-15, 17, and 19			
NT 01 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	is/are objected to.		
	are subject to restriction or election requirement.		
	are subject to restriction or election requirement.		
Application Papers			
☐ See the attached Notice of Draftsperson's Patent Dra			
☐ The drawing(s) filed on is/are o			
The proposed drawing correction, filed on	is Lapproved Disapproved.		
☐ The specification is objected to by the Examiner.	-		
☐ The oath or declaration is objected to by the Examine	er.		
Priority under 35 U.S.C. § 119			
Acknowledgement is made of a claim for foreign price			
	es of the priority documents have been		
	Number		
received in this national stage application from			
*Certified copies not received:	· · · · · · · · · · · · · · · · · · ·		
☐ Acknowledgement is made of a claim for domestic pr			
Attachment(s)			
X Notice of References Cited, PTO-892			
☑ Information Disclosure Statement(s), PTO-1449, Paper	er No(s)3		
☐ Interview Summary, PTO-413			
☐ Notice of Draftsperson's Patent Drawing Review, PT(D-948		
☐ Notice of Informal Patent Application, PTO-152			
SEE OFFICE ACTION O	ON THE FOLLOWING PAGES		

DETAILED ACTION

Title

- 1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.
- 2. The following title is suggested: Substrate Processing Apparatus With Exhaust Means For Removing Containments.

Election/Restriction

3. Claims 20-26 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b) as being drawn to a non-elected invention. Election was made without traverse in Paper No. 7.

Claim Rejections - 35 USC § 112

- 4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 5. Claims 14, 17 and 18 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 14 discloses "a flexible exhaust pipe," flexible is vague and indefinite.

Claim 17 discloses "load lock chamber at the side of region" is unclear where the gas supply and chamber exhaust are located.

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Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 7. Claims 1-9, 12-15, 17 and 19 are rejected under 35 U.S.C. 102(b) as being anticipated by Saeki.

Saeki shows chamber 7 that contains gas supply line 10 and exhaust line 9 and a load lock chamber 1 containing gas supply line 3, exhaust line 2 and moving mechanism 6. Exhaust line 2 is capable of removing contaminating particles from the load lock chamber and is connected to vacuum pump 23. In re claims 2-4, 6 and 7, the gas lines 3/10 and exhaust lines 2/9 are regulated by a controlling apparatus that is not shown (see col 5 lines 50-51). It is inherent that the controlling apparatus that is not shown of Saeki would have used detecting devices and regulators to control the different pressure settings for chamber 7 and load lock chamber 1. In re claim 5, the load lock chamber 1 and chamber 7 have means to set the pressure to a normal pressure (col 6 lines 66-67), which is equal to the atmospheric pressure. When the load lock chamber 1 is opened to receive another wafer, the pressure between load lock chamber 1 and platform 17 that holds the wafers are equal (col 5 lines 55-60). In re claims 8 and 9, it is inherent that the exhaust line 2 is regulated by the controlling apparatus and is used for creating a pressure in the load lock chamber 1 that is equal to the atmospheric pressure.

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Allowable Subject Matter

8. Claims 10, 11, 16 and 18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner 9. should be directed to Mike Dietrich at (703) 305-0381 and between the hours of 8:00 AM to 4:00PM (Eastern Standard Time) Monday through Friday or by E-mail via Michael.Dietrich@uspto.gov. The Art Unit 2814 Fax Center number is (703) 308-7722; -7724. Primary Examiner Don Monin can be reached at (703) 308-4895. Any inquiry of a general nature or relating to the status of this application should be directed to the Group 2800 Receptionist at (703) 308-0956.

Michael Dietrich

MD, 03/03/99

Primary Examiner